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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

2 Serial No. .... 10/602,438  
3 Filing Date ..... Jun 23, 2003  
4 Inventorship ..... Goldstein  
Applicant..... Microsoft Corporation  
5 Attorney's Docket No. .... MS1-1467US  
6 Title: Multidimensional Data Object Searching Using Bit Vector Indices

INFORMATION DISCLOSURE STATEMENT

*References -- See Attached Form PTO-1449*

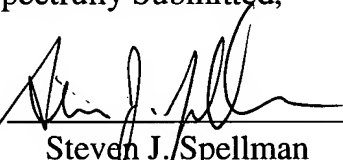
**REMARKS**

9 With regard to the above-identified application, the documents listed on the  
10 enclosed Form 1449 are brought to the attention of the Examiner. A copy of each  
11 document listed on the enclosed Form 1449 is provided. Consideration of the listed  
12 documents is respectfully requested. Additionally, it is requested that the  
13 Examiner return a copy of the attached Form 1449, marked as being considered  
and initialed by the Examiner, to the undersigned with the next official  
communication.

14 No representation is made that any of the documents listed in the enclosed Form  
15 1449 constitute prior art or are in any way material to the subject matter of the  
above-identified application

Respectfully Submitted,

18 Date: 8/1/2003

19 By:   
Steven J. Spellman  
20 Reg. No. 45,124

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Substitute for form 1449B/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				Application Number	10/602,438
				Filing Date	Jun 23, 2003
				First Named Inventor	Goldstein
				Group Art Unit	
				Examiner Name	
Sheet	1	of	2	Attorney Docket Number	MS1-1467US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	/	KATAYAMA, NORIO; SATOH, SHIN'ICHI; "The SR-Tree: An Index Structure for High-Dimensional nearest Neighbor Queries" April 1997; ACM Arizona, USA; pages 369-380	
	/	GAEDE, VOLKER; GUNTHER, OLIVER; "Multidimensional Access Methods"; ACM Computing Surveys, Vol. 30, No. 2, June 1998; pages 170-231	
	/	GOLDSTEIN, JOHNATHAN; RAMAKRISHNAN, RAGHU; "Contrast Plots and P-Shere Trees: Space vs. Time in Nearest Neighbor Searches"; VLDB Conference, Cairo, Egypt, 2000; 12 pages	
	/	BERCHTOLD, STEFAN; KEIM, DANIEL A.; KRIEGEL, HANS-PETER; "The X-tree: An Index for High-Dimensional Data"; VLDB Conference, Mumbai, India, 1996; pages 28-39	
	/	HJALTASON, GISLI R.; SAMET, HANAN; "Ranking in Spatial Databases"; University of Maryland, pages 83-95	
	/	FUNKHOUSER, THOMAS; MIN, PATRICK; KAZHDAN, MICHAEL; CHEN, JOYCE; HALDERMAN, ALEX; DOBKIN, DAVID; JACOBS, DAVID; "A Search Engine for 3D Models"; ACM Transactions on Graphics, Vol V., No. N; 28 Pages; 2002	
	/	KRIEGEL, HANS-PETER; POTKE, MARCO; SEIDL, THOMAS; "Object-Relational Indexing for General Interval Relationships"; 21 pages; Germany, 2001	
	/	KAMEL, IBRAHIM; FALOUTSOS, CHRISTOS; "Hilbert R-tree: An Improved R-tree Using Fractals"; VLDB Conference; Pages 500 - 509; Santiago, Chile; 1994	
	/	HELLERSTEIN, JOSEPH M.; NAUGHTON, JEFFREY F.; PFEIFFER, AVI; "Generalized Search Trees for Database Systems"; VLDB Conference; Pages 562 - 573; Zurich, Switzerland; 1995	
	/	O'NEIL, PATRICK; QUASS, DALLAN; "Improved Query Performance with Variant Indexes"; SIGMOD 1997; Pages 38 - 49; Arizona	
	/	GUTTMAN, ANTONIN; "R-trees: A Dynamic Index Structure for Spatial Searching" ACM; Pages 47-57; 1984	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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Sheet	2	of	2	Attorney Docket Number	MS1-1467US

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	✓	WEBER, ROGER; SCHEK, HANS-J; BLOTT, STEPHEN; "A Qantitative Analysis and Performance Study for Similarity-Search Methods in High-Dimensional Spaces"; VLDB Conference; Pages 194-205;1998; New York, USA	
	✓	BURGES, CHRISTOPHER J.C.; PLATT, JOHN C.; JANA, SOUMYA; "Extracting Noise-Robust Features from Audio Data" IEEE; Pages I-1021 to I-1024; 2002	
	✓	BEYER, KEVIN; GOLDSTEIN, JOHNATHAN; RAMAKRISHNAN, RAGHU; SHAFT, URI; "When is 'Nearest Neighbor' Meaningful?"; 19 Pages; Madison, Wisconsin, USA	
	✓	RUI, YONG; HUANG, THOMAS S.; and CHANG, SHIH-FU; "Image Retrieval: current Techniques, Promising Directions and Open Issues" Journal of Visual Communications and Image Representation, Vol. 10, No. 4, 1999; 17 pages	
	✓	PAGEL, BERND-UWE; KORN, FLIP; and FALOUTSOS, CHRISTOS; "Deflating the Dimensionality Curse Using Multiple Fractal Dimensions"; pages 1-10, ICDE 2000	
	✓	H. EDELSBRUNNER; MAURER, H.A.; "On the Intersection of Orthogonal Objects"; Information Processing Letters, v13, n4 & 5; North Holland, August, 1981; pages 177-181	
	✓	BROMLEY, J.; BENTZ, J.W.; BOTTOU, L.; GUYON, I.; LECUN, Y.; MOORE, C.; SACKINGER, E.; SHAH, R.; "Signature Verification Using a 'Siamese' Time Delay Neural Network"; Advances in Neural Processing Systems, v6; 1994; pgs 25-44	
	✓	O'NEIL, PATRICK; "Model 204 Architecture and Performance"; High Performance Transaction Systems Workshop; September 1987; pages 40-59	

Examiner Signature	Date Considered
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